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U.S. DEPARTMENT OF AGRICULTURE
NATIONAL FOREST SERVICE

APR 6 1970

CURRENT SERIAL RECORDS

WATER SUPPLY OUTLOOK FOR NEVADA

and

FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

UNITED STATES DEPARTMENT of AGRICULTURE--SOIL CONSERVATION SERVICE,

and

NEVADA DEPARTMENT of CONSERVATION and NATURAL RESOURCES
DIVISION of WATER RESOURCES

Data included in this report were obtained by the agencies named above in cooperation with Federal, State and private organizations listed on the last page of this report.

AS OF
MAR. 1, 1970

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1400 snow courses in Western United States and in the Columbo Basin in British Columbia. In the near future, it is anticipated that automatic snow water equivalent sensing devices along with radio telemetry will provide a continuous record of snow water equivalent at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, Western Regional Technical Service Center, Room 209, 701 N. W. Glisan, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	P. O. Box "F", Palmer, Alaska 99645
Arizona	6029 Federal Building, Phoenix, Arizona 85025
Colorado (N. Mex.)	12417 Federal Building, Denver, Colorado 80202
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno Nevada 89505
Oregon	1218 S. W. Woshington St., Portland, Oregon 97205
Utah	4012 Federal Building, Salt Lake City, Utah 84111
Washington	360 U.S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 340, Casper, Wyoming 82601

PUBLISHED BY OTHER AGENCIES.

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 --- and for British Columbia by the Department of Lands, Forests and Water Resources, Water Resources Service, Parliament Building, Victoria, British Columbia



and
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

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DETAILED WATER SUPPLY OUTLOOK BY MAJOR AREAS:

Truckee, Carson, and Walker Watersheds	Area 1
Surprise Valley, California, and Northwest Nevada	Area 2
Humboldt and Owyhee Watersheds	Area 3
East Central and Southern Nevada	Area 4

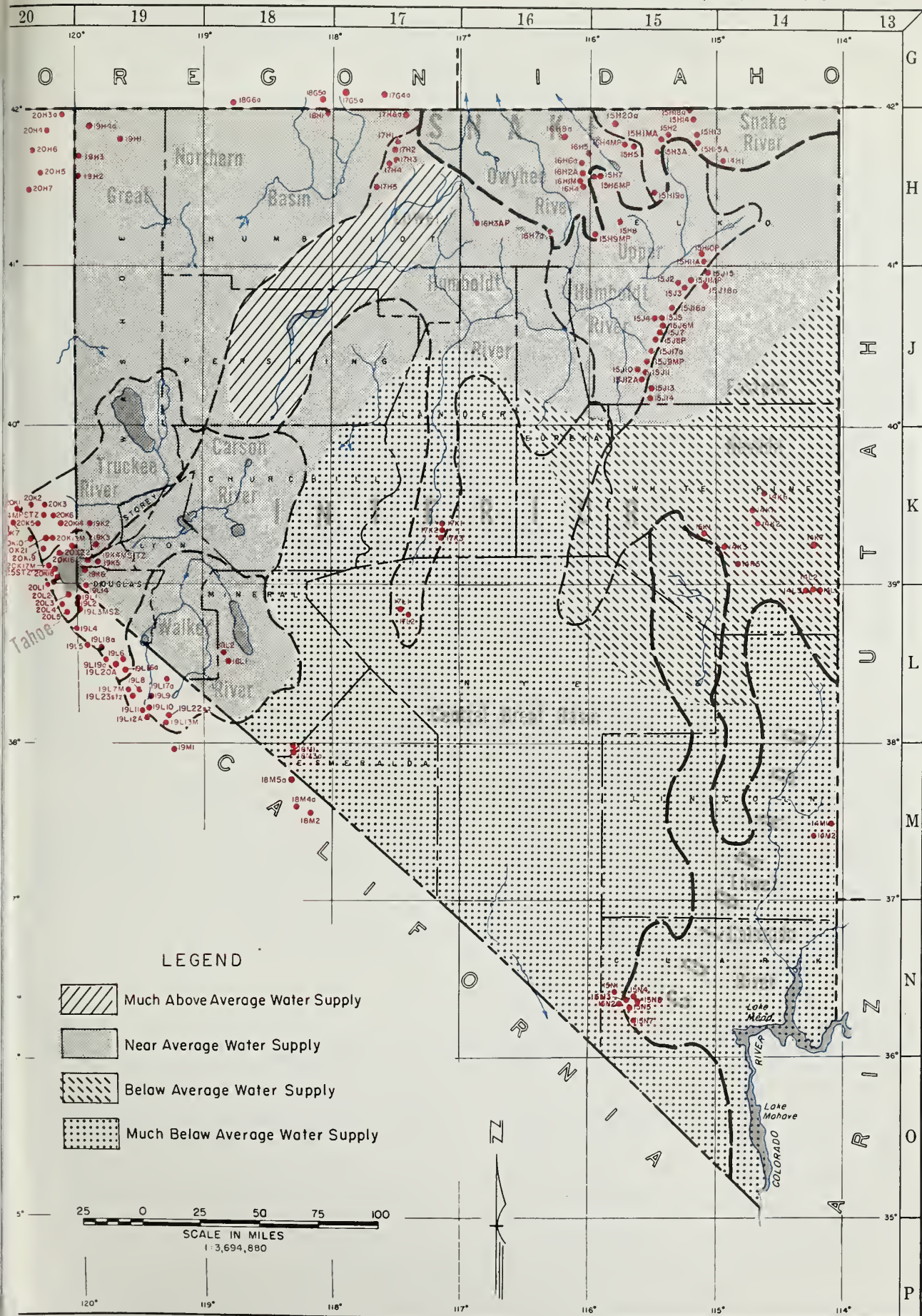
LIST OF COOPERATORS	Inside Back Cover
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ALL AVERAGES ARE FOR 1953-67 PERIOD



AREA LOCATIONS

PROSPECTIVE WATER SUPPLY FOR NEVADA



INDEX TO NEVADA SNOW COURSES

(By Basins)

Refer to the map on the following page for Snow Course locations.

NUMBER	NAME	SEC.	TWP.	RGE.	ELEV.
SNAKE RIVER BASIN					
SNAKE RIVER					
1SH1MA	BEAR CREEK	31	46N	58E	7800
1SH2	FOX CREEK	33	46N	58E	6800
1SH13A	GOAT CREEK	31	46N	60E	8300
1SH15A	HUMMINGBIRD SPRINGS	6	45N	60E	8945
14H1	JAKES CREEK	6	42N	62E	7000
1SH20a	MERRITT MOUNTAIN	10	46N	54E	7000
1SH14A	POLE CREEK RANGER STATION	13	46N	59E	8330
1SH18a	RED POINT	15	47N	61E	7940
1SH3A	76 CREEK	6	44N	58E	7100
1SH19a	STAG MTN.	29	41N	58E	7800

OWYHEE RIVER					
1SH4MP	816 BEND	30	45N	56E	6700
16H6a	COLUMBIA BASIN	31	44N	53E	6650
16H8a	FAWN CREEK	2	45N	52E	7000
15H5	GOLD CREEK	32	45N	56E	6600
16H1M	JACK CREEK, LOWER	18	42N	53E	6800
16H2A	JACK CREEK, UPPER	9	42N	53E	7250
16H4	JACKS PEAK	28	42N	53E	8420
16H5	LAUREL DRAW	20	45N	53E	6700
17G4a	LOUSE CANYON (OREG.)	27	40S	44E	6440
1SH9MP	TAYLOR CANYON	35	39N	53E	6200

INTERIOR

UPPER HUMBOLOT RIVER					
1SJ17a	AMERICAN BEAUTY	32	31N	58E	7800
1SJ12A	CORRAL CANYON	27	28N	57E	8500
1SJ1MP	DORSEY BASIN	28	35N	60E	8100
1SJ3	DRY CREEK	5	34N	60E	6500
15H7	FRY CANYON	31	43N	54E	6700
1SJ9MP	GREEN MOUNTAIN	23	29N	57E	8000
1SJ10	HARRISON PASS #1	9	28N	57E	6600
1SJ11	HARRISON PASS #2	16	28N	57E	7400
1SJ4	LAMOILLE #1	15	32N	58E	7100
1SJ5	LAMOILLE #2	14	32N	58E	7200
1SJ6M	LAMOILLE #3	24	32N	58E	7700
1SJ7	LAMOILLE #4	19	33N	59E	8000
1SJ8P	LAMOILLE #5	31	32N	59E	8700
1SJ18a	POLE CANYON	31	35N	61E	9140
1SJ16a	ROBINSON LAKE	23	33N	59E	9200
1SH6MP	RODED FLAT	36	43N	53E	6800
1SJ2	RYAN RANCH	1	34N	59E	5800
1SH8	TREMEEAN RANCH	9	39N	55E	5000
1SH10P	TROUT CREEK, LOWER	28	37N	61E	8000
1SH11A	TROUT CREEK, UPPER	4	36N	61E	8500

LOWER HUMBOLOT RIVER					
17K1	816 CREEK CAMP GROUND	10	17N	43E	6600
17K2	816 CREEK MINE	23	17N	43E	7600
17K3	816 CREEK, UPPER	26	17N	43E	7800
17H2	BUCKSKIN, LOWER	25	45N	39E	6700
17H1	BUCKSKIN, UPPER	11	45N	39E	8200
17L1	CORRAL, LOWER	12	11N	40E	7500
17L2	CORRAL, UPPER	20	11N	41E	8000
17J2	GOLCONOA #2	22	35N	39E	6000
17H4	GRANITE PEAK	22	44N	39E	7800
17H5	LAMANCE CREEK	13	42N	38E	6000
17H3	MARTIN CREEK	18	44N	40E	6700
16H3AP	MIDAS	18	39N	46E	7200
16H7	TOE JAM a	29	40N	50E	7700

EASTERN NEVADA					
14L1	BAKER #1	29	13N	69E	7950
14L2	BAKER #2	30	13N	69E	8950
14L3	BAKER #3	29	13N	69E	9250
14K2	BERRY CREEK	26	17N	65E	9100
14K1	BIRD CREEK	34	19N	65E	7500
15J13	CAVE CREEK	25	27N	57E	7500
15J14	HAGER CANYON	34	27N	57E	8000
15J15	HOLE-IN-MTN	6	35N	61E	7900
14K8	KALAMAZOO CREEK	34	20N	65E	7400
14K3	MURRAY SUMMIT	25	16N	62E	7250
15K1	ROBINSON SUMMIT	34	18N	61E	7600
14K7	SILVER CREEK #2	30	16N	69E	8000
14K5	WARD MOUNTAIN #2	25	15N	62E	8900

CENTRAL GREAT BASIN					
18M2	CAMPITO MTN (CAL.)	19	SS	35E	10200
18MSa	CHIATOVICH FLAT	32	2S	34E	10500
1SN2	CLARK CANYON	8	19S	56E	9000
18M1	MONTGOMERY PASS	4	1N	33E	7100
18M3a	PINCHOT CREEK	28	1N	33E	9300
18M4a	PIUTE PASS (CAL.)	33	4S	33E	11700
15N1	TROUGH SPRINGS	23	18S	55E	8500

NORTHERN GREAT BASIN					
19H1	BALD MOUNTAIN	17	45N	21E	6720
20H5	BARBER CREEK (CAL.)	23	39N	16E	6500
20H6	CEDAR PASS (CAL.)	12	43N	14E	7100
18G6a	DENIO CREEK (OREG.)	14	41S	34E	6000
19H1	DISASTER PEAK	8	47N	34E	6300
20H3a	DISMAL SWAMP (CAL.)	31	18N	22E	7000
20H7	EAGLE PEAK (CAL.)	35	40N	15E	7200
19H3	49-MTN	7	42N	19E	6000
19H2	HAYS CANYON	1	39N	18E	6400
19H4a	LITTLE BALLY MTN	8	45N	19E	6000
17G5a	OREGON CANYON (OREG.)	9	40S	40E	7240
17H6a	QUINN RIDGE	9	47N	41E	6300
20H4	RESERVATION CREEK (CAL.)	12	46N	15E	5900
18G5a	TROUT CREEK (OREG.)	10	41S	38E	7800

LAKE TAHOE					
19L14	DAGGETTS PASS	19	13N	19E	7350
20L5	ECHO SUMMIT (CAL.)	6	11N	18E	7450
19L2	FREEL BENCH (CAL.)	36	12N	18E	7300
19K6	GLENBROOK #2	13	14N	18E	6500
19L3MSZ	HAGANS MEADOW (CAL.)	36	12N	18E	8000
20L4	LAKE LUCILLE (CAL.)	28	12N	17E	8200
19K4MSZ	MARLETTE LAKE	18	15N	19E	8000
20L3	RICHARSONS #2 (CAL.)	6	12N	18E	6500
20L1	RUBICON #1 (CAL.)	6	13N	17E	8100
20L2	RUBICON #2 (CAL.)	6	13N	17E	7500
20K16	TAHKEE C.ITY. (CAL.)	6	15N	17E	6250
19L1	UPPER TRUCKEE (CAL.)	2	12N	18E	6400
20K17M	WARD CREEK (CAL.)	21	15N	16E	7000
20K25STZ	WARD CREEK #2 (CAL.)	21	15N	16E	6750

TRUCKEE RIVER					
20K14	BOCA #2 (CAL.)	28	18N	17E	5900
20K22	BROCKWAY SUMMIT (CAL.)	3	17N	16E	7100
20K21	DONNER PARK #2 (CAL.)	18	17N	16E	6000
20K10*	DONNER SUMMIT (CAL.)	25	17N	14E	6900
20K7*	FORDYCE LAKE (CAL.)	34	18N	13E	6500
20K8	FURNACE FLAT (CAL.)	10	17N	13E	6700
20K4MP	INDEPENDENCE CAMP (CAL.)	34	19N	15E	7000
20K3	INDEPENDENCE CREEK (CAL.)	14	19N	15E	6500
20K5	INDEPENDENCE LAKE (CAL.)	9	18N	15E	8450
19K3	LITTLE VALLEY	17	16N	19E	6300
19K2	MT. ROSE	7	17N	19E	9000
20K6	SAGE HEN CREEK (CAL.)	7	18N	16E	6500
20K19	SOUAV VALLEY #2 (CAL.)	6	15N	16E	7500
20K13M	TRUCKEE #2 (CAL.)	22	17N	16E	6400
20K2	WEBBER LAKE (CAL.)	29	19N	14E	7000
20K1*	WEBBER PEAK (CAL.)	30	19N	14E	8000

CARSON RIVER					
19L5	BLUE LAKES (CAL.)	30	9N	19E	8000
19L4	CARSON PASS, UPPER (CAL.)	22	10N	18E	8600
19K5	CLEAR CREEK	6	14N	19E	7300
19L19a	EBBETTS PASS (CAL.)	17	8N	20E	8700
19L16a	FISH VALLEY, UPPER (CAL.)	30	7N	22E	8050
19L18a	WET MEADOWS LAKE (CAL.)	26	9N	19E	8100
19L20a	WOLF CREEK (CAL.)	35	8N	20E	8000

WALKER RIVER					
19L11	BUCKEYE FORKS (CAL.)	20	4N	23E	8500
19L10	BUCKEYE ROUGHS (CAL.)	15	4N	23E	7900
19L12A	CENTER MOUNTAIN (CAL.)	4	3N	23E	9400
18L1	LAPON MEADOW	36	8N	28E	9000
19L8	LEAVITT MEADOWS (CAL.)	4	5N	22E	7200
19L17a	LOBDELL LAKE (CAL.)	20	7N	24E	9200
18L2	MT. GRANT	23	8N	28E	9000
19L7M	SONORA PASS (CAL.)	1	5N	21E	8800
19L23STZ	SONORA PASS BRIDGE	6	5N	22E	8800
19M1*	TIOGA PASS (CAL.)	30	1N	25E	9900
19L13M	VIRGINIA LAKES (CAL.)	5	2N	25E	9500
19L9	WILLOW FLAT (CAL.)	21	5N	23E	8250
19L22S2	VIRGINIA LAKES RIDGE	32	3N	25E	9200

COLORADO

LOWER COLORADO RIVER					
15N5	KYLE CANYON	27	19S	56E	8200
15N4	LEE CANYON #1	10	19S	56E	8400
15N3	LEE CANYON #2	9	19S	56E	9200
15N2	LEE CANYON #3	10	19S	56E	8500
14M1	MATHEW CANYON	10	6S	70E	6000
14M2	PINE CANYON	23	6S	69E	6200
15N7	RAINBOW CANYON #2	6	20S	57E	8100
15L1	WHITE RIVER #1	31	13N	59E	7400

LEGEND

NUMBERING SYSTEM (EXAMPLE)

19K4	SNOW COURSE ONLY
19K4S	SNOW COURSE AND SNOW PILLOW
19K4M	SNOW COURSE AND SOIL MOISTURE
19K4A	SNOW COURSE AND AERIAL MARKER
19K4P	SNOW COURSE AND STORAGE PRECIPITATION GAGE
19K4MA	SNOW COURSE, SOIL MOISTURE AND AERIAL MARKER
19K4MP	SNOW COURSE, SOIL MOISTURE AND PRECIPITATION GAGE
19K4STZ	SNOW COURSE, SNOW PILLOW AND TEMPERATURE RADIO TELEMETERED.

LOWER CASE LETTERS m, a, p, s, i, z, INDICATE NO SNOW COURSE, ONLY A SOIL MOISTURE STATION, AERIAL MARKER, STORAGE PRECIPITATION GAGE, SNOW PILLOW, TEMPERATURE, OR RADIO TELEMETERED.

*LOCATED ON ADJACENT WATERSHED

WATER SUPPLY OUTLOOK FOR NEVADA

AS OF MARCH 1, 1970, NEVADA'S WATER SUPPLY OUTLOOK IS FOR SLIGHTLY BETTER THAN AVERAGE SUMMER SUPPLIES IN THE NORTHERN HALF OF THE STATE, WHILE IN THE SOUTHERN PORTION SURFACE-WATER SUPPLIES WILL BE VERY DEFICIENT TO NON-EXISTENT. THE SNOWPACK THROUGHOUT NEVADA'S MOUNTAINS AND ON THE EAST SLOPE OF THE SIERRA NEVADA, IN CALIFORNIA, RANGES FROM 120 PERCENT OF NORMAL ON THE HUMBOLDT DRAINAGE TO LESS THAN 25 PERCENT OF AVERAGE ON MT. CHARLESTON, NEAR LAS VEGAS. THE MAJORITY OF THE MAJOR WATER-PRODUCING BASINS HAVE A NEAR-AVERAGE SNOWPACK AT THIS TIME, HOWEVER. RESERVOIR STORAGE REMAINS EXCELLENT AT 157 PERCENT OF AVERAGE FOR THIS DATE.

Snow surveys taken in the Tahoe Basin indicate that the snowpack is currently 103 percent of average. The Truckee River drainage exclusive of the Lake Tahoe Basin, however, has only 77 percent of normal snow cover. The Carson River drainage has an average snowpack for this date. The snowpack in both basins is less than average for elevations below 7,000 feet and, at the same time, is above normal at the higher elevation zones. Reservoir storage remains excellent in the Truckee and Carson watersheds. Lake Tahoe and other reservoirs in the Truckee drainage have 160 percent of normal carryover storage. Lahontan Reservoir contains 249,000 acre-feet, which is 130 percent of average for this date. This excellent reservoir storage, plus near-average streamflow predicted for this summer insures water users in the Carson Valley and along the Truckee good supplies for this summer.

The Walker River Basin, similarly, has a near-average snowpack. Combined storage in Topaz and Bridgeport reservoirs is 98,000 acre-feet. This is 140 percent of average and only 3,000 acre-feet below capacity. This excellent storage, coupled with slightly better than average predicted streamflow on the Walker Rivers, assures a good water supply to users in the Mason and Smith Valleys.

Generally, the Humboldt Basin also has an above-normal snowpack this year. Similar to the Sierra Range, the Humboldt Basin has an above-normal snowpack in the higher elevations, while in the lower levels the snowpack is one-third less than normal to virtually non-existent. Near-average to above-average streamflow is predicted for the Humboldt and its major tributaries. Rye Patch Reservoir has 173,000 acre-feet of stored water, which is only 6,000 acre-feet less than capacity. These factors indicate that water users along the Humboldt and its major tributaries will have another good irrigation season this year.

Wild Horse Reservoir is starting to fill, and water users located in the Upper Owyhee and Upper Snake drainages will have near-normal supplies this summer.

Snow surveys indicate that White Pine County has a snowpack which is 80 percent of average this year. Streamflow is expected to be about three-fourths of average this season on most major streams in the area. Similar to other areas of the state, the low-elevation snow is deficient, while the higher mountains have a near-normal snowpack. This will tend to reduce the early streamflow, but flows during the summer should be about 75 percent of average.

Southern Nevada's snowpack is very deficient this year. Snow course measurements made in the Mt. Charleston area, near Las Vegas, indicate that in only three years during the last 30 has there been less snow on this date. Surveys in the Austin area indicate that this year's pack is less than 50 percent of average.

Water supplies derived through direct streamflow throughout Central and Southern Nevada will be very deficient to non-existent this year.



STREAMFLOW FORECASTS (Thousand Acre Feet) as of: March 1, 1970

Forecasts are based on snow-water presently stored in the mountain watersheds and the assumption that precipitation will be near average throughout the forecast period. Peak flow forecasts indicate the most probable range for the maximum average 24-hour flow. All averages are for 1953-67 period.

FORECAST POINT	Forecast Period	Forecast This Year	This Year as Percent of Average	Average +
<u>TRUCKEE RIVER</u>				
Little Truckee River above Boca, Calif. ¹	Apr.-July	72	88	81
Truckee River at Farad, Calif. ^{1,2}	Apr.-July	255	99	258
Lake Tahoe Rise in Feet (From April 1, assuming gates closed) ²	Apr.-July	1.50	109	1.39
<u>CARSON RIVER</u>				
East Carson near Gardnerville, Nev.	Apr.-July	179	102	175
West Carson at Woodfords, Calif.	Apr.-July	55	108	51
Carson River near Carson City, Nev.	Apr.-July	170	102	166
Carson River at Fort Churchill, Nev.	Apr.-July	153	102	150
<u>WALKER RIVER</u>				
East Walker near Bridgeport, Calif. ¹	Apr.-Aug.	65	108	60
West Walker below Little Walker near Coleville, Calif.	Apr.-July	160	112	143
<u>COLORADO RIVER</u>				
Virgin River at Virgin, Utah	Apr.-June	20	53	38
<u>HUMBOLDT RIVER</u>				
Lamoille Creek near Lamoille, Nev.	Apr.-July	23	92	25
South Fork Humboldt near Elko, Nev.	Apr.-July	65	112	58
Marys River above Hot Springs, Nev.	Apr.-July	32	114	28
North Fork Humboldt at Devils Gate, Nev.	Apr.-July	22	96	26
Humboldt River at Palisade, Nev.	Apr.-July	200	130	154
Humboldt River at Comus, Nev.	Apr.-July	140	127	110
Martin Creek near Paradise, Nev.	Apr.-July	17	121	14

* 1953-1967 period.

STREAMFLOW FORECASTS (Thousand Acre Feet) as of: March 1, 1970 (Continued)

Forecasts are based on snow-water presently stored in the mountain watersheds and the assumption that precipitation will be near average throughout the forecast period. Peak flow forecasts indicate the most probable range for the maximum average 24-hour flow. All averages are for 1953-67 period.

FORECAST POINT	Forecast Period	Forecast This Year	This Year as Percent of Average	Average +
<u>SNAKE RIVER</u>				
Owyhee River near Owyhee, Nev. ¹	Apr.-July	69	115	60
Owyhee River near Gold Creek, Nev. ¹	Apr.-July	18	112	16
Salmon Falls Creek near San Jacinto, Nev.	Mar.-July	75	113	67
<u>SURPRISE VALLEY</u>				
Bidwell Creek near Ft. Bidwell, Calif.	Apr.-July	12.5	109	11.5
Mill Creek near Cedarville, Calif.	Apr.-July	5.5	117	4.7
Deep Creek near Cedarville, Calif.	Apr.-July	4.0	121	3.3
Eagle Creek near Eagleville, Calif.	Apr.-July	4.8	112	4.3
¹ Corrected for storage ² Forecast issued by Truckee Basin Committee				

+ 1953-1967 period.

PEAK FLOWS (MAXIMUM MEAN DAILY) (Av. flow for 24 hrs. on day of greatest flow)

FORECAST POINT	PEAK FLOW (SECOND FEET)	
	Forecast Range	Average +
Little Truckee River - Inflow to Stampede Reservoir	810 - 900	902
East Fork Carson River near Gardnerville, Nev.	1700 - 1900	1724
Carson River near Carson City, Nev.	1800 - 2000	1825
Carson River at Fort Churchill, Nev.	1550 - 1700	1678
West Walker River below Little Walker near Coleville, Calif.	1600 - 1750	1548

FORECAST DATE of LOW FLOW VALUES

FORECAST POINT	Low Flow Value Second/Ft.	Forecast Date Stream Will Recede to Low Flow Value	Average Date of Low Flow Value
East Carson River near Gardnerville, Nev.	200	7/18	7/23

SOIL MOISTURE MEASUREMENTS

STATION	Profile (Inches)		Soil Moisture (Inches)		
	Depth	Capacity	Date	This Year	Average +
<u>OWYHEE-HUMBOLDT</u>					
Big Bend	48	16.70	2/19	12.0	15.4 *
Bear Creek	72	16.90	2/25	8.3	10.6 *
Rodeo Flat	42	11.00	2/19	4.0	10.6 *
Taylor Canyon	48	15.10	2/19	12.7	13.0 *
<u>TAHOE-TRUCKEE</u>					
Hagans Meadow	36	3.65	2/25	2.3	3.3 *
Independence Camp	34	6.10	2/27	2.9	5.6 *
Marlette Lake	50	3.70	2/24	2.7	3.1 *
Sonora Pass	48	8.30	3/3	5.2	-
Ward Creek	49	5.80	2/26	3.4	5.6 *

+ 1953-1967 period.

RESERVOIR STORAGE (Thousand Acre Feet) as of March 1, 1970

Basin or Stream	RESERVOIR	Usable Capacity	Usable Storage		
			This Year	Last Year	Average [†]
Owyhee	Wild Horse	72	12	2	15
Lower Humboldt	Rye Patch	179	173	42	74
Colorado	Mohave	1,810	1,616	1,663	1,697
Colorado	Mead	27,217	16,853	15,464	16,416
Tahoe	Tahoe	732	646	630	412
Truckee	Boca	41	27	0	6
Truckee	Stampede	220	63	Storage began 8/1/69	
Truckee	Prosser **	30	9	9	8 *
Carson	Lahontan	286	249	202	191
West Walker	Topaz	59	58	28	39
East Walker	Bridgeport	42	40	18	31
** Flood control use allocation of 20,000 acre-feet between November 1 and April 10.					

TOTAL RESERVOIR STORAGE (Thousand Acre Feet)

MONTH	This Year	Last Year	Average [†]
October 1	999	649	656
January 1	1,062	694	660
February 1	1,255	881	715
March 1	1,206	922	768
April 1		796	839
May 1		902	890

[†] 1953-1967 period.

The above data developed from Wild Horse, Rye Patch, Tahoe, Boca, Lahontan, Topaz, and Bridgeport Reservoirs in 1,000 Acre-Feet.

TOTAL USABLE CAPACITY 1,411

SNOW COURSE MEASUREMENTS

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
					Last Year	Average †
NAME						
<u>LAKE TAHOE</u>						
Echo Summit (Calif.)		2/26	78	31.0	66.5	28.7
Freel Bench (Calif.)		2/25	25	9.0	28.4	10.6 *
Glenbrook #2		2/28	26	10.1	-	10.4
Hagans Meadow		2/25	45	16.9	39.7	15.7 *
Heavenly Valley		2/26	70	28.2	53.4	-
Lake Lucille (Calif.)		2/24	146	63.9	95.0	-
Marlette Lake		2/24	58	21.6	45.5	17.5
Richardsons #2 (Calif.)		2/28	33	11.7	30.7	14.9
Rubicon #1 (Calif.)		2/24	116	44.2	74.8	38.3
Rubicon #2 (Calif.)		2/24	75	27.1	53.0	23.6
Tahoe City (Calif.)		2/24	18	7.7	27.9	10.2
Upper Truckee (Calif.)		2/25	14	5.9	20.0	8.9 *
Ward Creek #2 (Calif.)		2/26	82	33.7	69.5	34.3
Ward Creek #3 (Calif.)		2/26	73	28.8	-	-
<u>TRUCKEE RIVER</u>						
Boca #2 (Calif.)		2/26	3	1.2	16.6	6.1
Brockway Summit (Calif.)		2/24	43	16.1	47.7	-
Donner Park #2 (Calif.)		2/26	25	8.0	33.0	15.6 *
Donner Summit (Calif.)		2/26	68	30.1	74.4	30.8
Fordyce Lake (Calif.)		2/26	43	19.0a	68.0a	30.2 *
Furnace Flat (Calif.)		2/26	72	31.0a	75.0a	35.2 *
Independence Camp (Calif.)		2/27	40	15.0	45.6	19.4
Independence Creek (Calif.)		2/27	17	6.6	-	12.8
Independence Lake (Calif.)		2/27	91	36.6	-	32.3
Little Valley		2/26	9	2.8	26.2	8.8 *
Mt. Rose Ski Area		2/27	136	42.1	-	-
Sage Hen Creek (Calif.)		2/27	29	10.0	37.0	16.1
Squaw Valley #2 (Calif.)		2/28	107	45.4	79.5	41.9 *
Truckee #2 (Calif.)		2/28	26	9.1	-	14.1
<u>CARSON RIVER</u>						
Carson Pass, Upper (Calif.)		3/3	84	32.1	67.3	28.4
Clear Creek		2/27	37	12.6	27.8	11.1
Ebbetts Pass (Calif.)		3/3	113	39.6a	64.4a	-
Fish Valley, Upper (Calif.)		3/3	38	12.5a	34.5a	11.7 *
Poison Flat		3/3	37	12.2a	40.0a	14.4 *
Wet Meadows Lake (Calif.)		3/3	69	24.8a	59.9a	-
Wolf Creek (Calif.)		3/3	72	25.9a	57.7a	-
<u>WALKER RIVER</u>						
Buckeye Forks (Calif.)		2/26	53	18.6	-	-
Buckeye Roughs (Calif.)		2/27	39	13.7	-	-
Center Mountain		2/27	83	31.1	79.9a	-
Lobdell Lake		3/3	41	13.5a	41.0a	-

† 1953-1967 period.

SNOW COURSE MEASUREMENTS

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME					Last Year	Average †
<u>WALKER RIVER (Continued)</u>						
Sonora Pass (Calif.)		3/3	62	20.5	48.8	19.8
Virginia Lakes (Calif.)		3/2	41	13.8	36.6	15.4
Virginia Lakes Ridge (Calif.)		3/2	44	12.9	34.2	-
<u>NORTHERN GREAT BASIN</u>						
Bald Mountain		2/26	6	2.0	8.4	3.1
Barber Creek, Calif.		3/2	28	9.8	17.9	9.4 *
Cedar Pass (Calif.)		3/2	35	13.0	21.0	12.2
Denio Creek (Oreg.)		2/25	0	0.0	3.0	0.5 *
Disaster Peak		2/25	29	12.3	29.0	12.6
Dismal Swamp (Calif.)		2/24	36	13.0a	19.8a	13.4 *
49 Mountain		3/3	5	1.2	8.8	3.9 *
Hays Canyon		3/2	7	1.2	9.7	3.4 *
Little Bally Mountain		2/24	4	1.4	6.6a	2.1 *
Oregon Canyon (Oreg.)		2/26	12	4.4	10.7a	5.2 *
Quinn Ridge		2/25	0	0.0	4.2a	2.3 *
Reservation Creek (Calif.)		3/3	24	9.1	16.1	9.2 *
Trout Creek (Oreg.)		2/25	18	6.7	12.5a	6.3 *
<u>SNAKE RIVER</u>						
Bear Creek		2/25	52	18.8	26.2	15.3 *
Fox Creek		2/25	28	9.6	14.4	7.9 *
Goat Creek		2/25	48	15.8	21.0	14.9 *
Hummingbird Springs		2/25	64	22.0	26.5	17.5 *
Merritt Mountain		2/26	24	7.9a	11.2a	-
Pole Creek Ranger Station		2/25	52	17.8	19.6	15.3 *
Red Point		2/25	31	10.2	6.3a	9.5 *
76 Creek		2/26	48	15.4a	16.6	9.1 *
Stag Mountain		2/26	6	1.9a	11.2a	-
<u>OWYHEE RIVER</u>						
Big Bend		2/19	30	9.2	11.6	6.9
Columbia Basin		2/26	20	6.6a	15.4a	-
Fawn Creek		2/26	8	2.6a	10.8a	-
Gold Creek		2/19	19	6.0	6.7	4.7
Jack Creek, Upper		2/26	18	5.9a	11.2a	8.0
Laurel Draw		2/25	21	6.4	11.0	6.2 *
Louse Canyon (Oreg.)		2/25	1	0.3a	8.7a	3.1 *
Taylor Canyon		2/19	11	3.3	10.3	4.2

† 1953-1967 period.

SNOW COURSE MEASUREMENTS

SNOW COURSE MEASUREMENTS		THIS YEAR			PAST RECORD	
DRAINAGE BASIN and/or SNOW COURSE		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Last Year				Average †	
UPPER HUMBOLDT RIVER						
American Beauty	2/26	16	5.3a	15.4a	-	
Corral Canyon	2/26	48	15.8a	22.0a	13.8	
Dorsey Basin	2/20	39	12.7	-	9.5	
Dry Creek	2/20	T	T	-	3.8	
Fry Canyon	2/19	25	7.9	-	6.0	
Green Mountain	2/24	36	15.5	18.5	10.6 *	
Harrison Pass #1	2/24	T	T	-	3.8	
Harrison Pass #2	2/24	T	T	-	5.1	
Lamoille #1	2/20	26	7.6	15.0	8.3	
Lamoille #2	2/20	21	7.1	14.9	7.7	
Lamoille #3	2/20	34	9.5	16.6	10.0	
Lamoille #4	2/20	50	14.9	16.3	15.0	
Lamoille #5	2/20	75	27.5	26.6	21.8	
Pole Canyon	2/26	24	7.7a	11.2a	-	
Robinson Lake	2/26	84	27.7a	32.0a	-	
Rodeo Flat	2/19	18	6.2	-	5.5	
Ryan Ranch	2/20	T	T	-	1.6	
Tent Mountain	2/26	48	15.8a	21.1a	-	
Tremewan Ranch	2/19	0	0.0	4.4	1.1	
Trout Creek, Lower	2/20	T	T	-	2.7 *	
Trout Creek, Upper	2/26	40	13.2a	15.4a	14.0 *	
LOWER HUMBOLDT RIVER						
Big Creek Camp Ground	2/19	0	0.0	3.4	1.6 *	
Big Creek Mine	2/19	5	1.7	6.0	3.5 *	
Big Creek, Upper	2/19	9	2.5	-	4.9 *	
Buckskin, Lower	2/24	22	8.2	13.5	6.7	
Buckskin, Upper	2/24	33	13.1	12.1	7.2 *	
Corral, Lower	Delayed			-	1.2	
Corral, Upper	Delayed			-	4.1 *	
Golconda #2	2/26	6	2.8	11.0	3.6 *	
Granite Peak	2/24	49	18.3	24.3	10.7	
Lamance Creek	2/24	27	12.0	17.9	7.5	
Martin Creek	2/24	25	9.3	19.8	7.8	
Midas	2/26	0	0.0a	11.2a	2.5 *	
Toe Jam	2/26	27	8.9a	19.8a	-	
EASTERN NEVADA						
Baker #1	2/25	11	3.8	14.5	5.1	
Baker #2	2/25	32	9.1	23.1	11.9	
Baker #3	2/26	34	9.5a	21.8a	13.6	
Berry Creek	2/26	40	11.5	21.1	11.1	
Bird Creek	2/26	7	2.6	5.7	3.5	
Cave Creek	Discontinued			20.5	11.9	
Hager Canyon	Discontinued			22.8	16.4	

† 1953-1967 period.

SNOW COURSE MEASUREMENTS

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
					Last Year	Average †
<u>EASTERN NEVADA (Continued)</u>						
Hole-in-Mountain		2/22	56	21.5	22.2	17.5 *
Kalamazoo Creek		2/27	16	4.1	10.0	6.0 *
Mt. Defiance		2/26	31	8.9	-	-
Murray Summit		2/24	0	0.0	12.0	2.5
Robinson Summit		2/24	T	T	7.0	2.1
Silver Creek #2		2/26	11	3.0a	10.4a	4.8 *
Ward Mountain #2		2/26	16	4.2a	9.4a	8.2 *
White River #1		2/24	T	T	13.0	2.3 *
<u>CENTRAL GREAT BASIN</u>						
Campito Mountain (Calif.)		2/25	13	2.3	17.8	5.4 *
Chiatovich Flat		2/27	12	2.4a	11.2a	-
Clark Canyon		2/27	6	0.7	30.0	5.8
Montgomery Pass		2/27	0	0.0	9.0	1.0 *
Pinchot Creek		2/27	0	0.0a	5.5a	5.1 *
Piute Pass (Calif.)		2/27	13	2.6a	17.8a	6.2 *
Trough Springs		2/26	T	T	31.5	4.6
<u>LOWER COLORADO RIVER</u>						
Kyle Canyon		2/25	6	1.3	45.7	7.1
Lee Canyon #2		2/25	11	3.0	30.1	7.2
Lee Canyon #3		2/25	6	1.7	28.2	5.3 *
Mathew Canyon		2/27	0	0.0	9.0	1.2
Rainbow Canyon #2		2/25	12	5.0	45.0	10.9
Pine Canyon		2/27	0	0.0	11.0	1.4
<p>NOTE: All averages based on 1953-67, 15 year period. Forecast period is April 1 through July 31 unless otherwise noted. a-Aerial marker, water content estimated. * 1953-67 adjusted average.</p>						

† 1953-1967 period.

U.S.D.A. SOIL CONSERVATION SERVICE DAILY RADIO REPORTS BY AUTOMATIC SNOW MEASURING STATION

DAILY 8:00 A.M. OBSERVATIONS

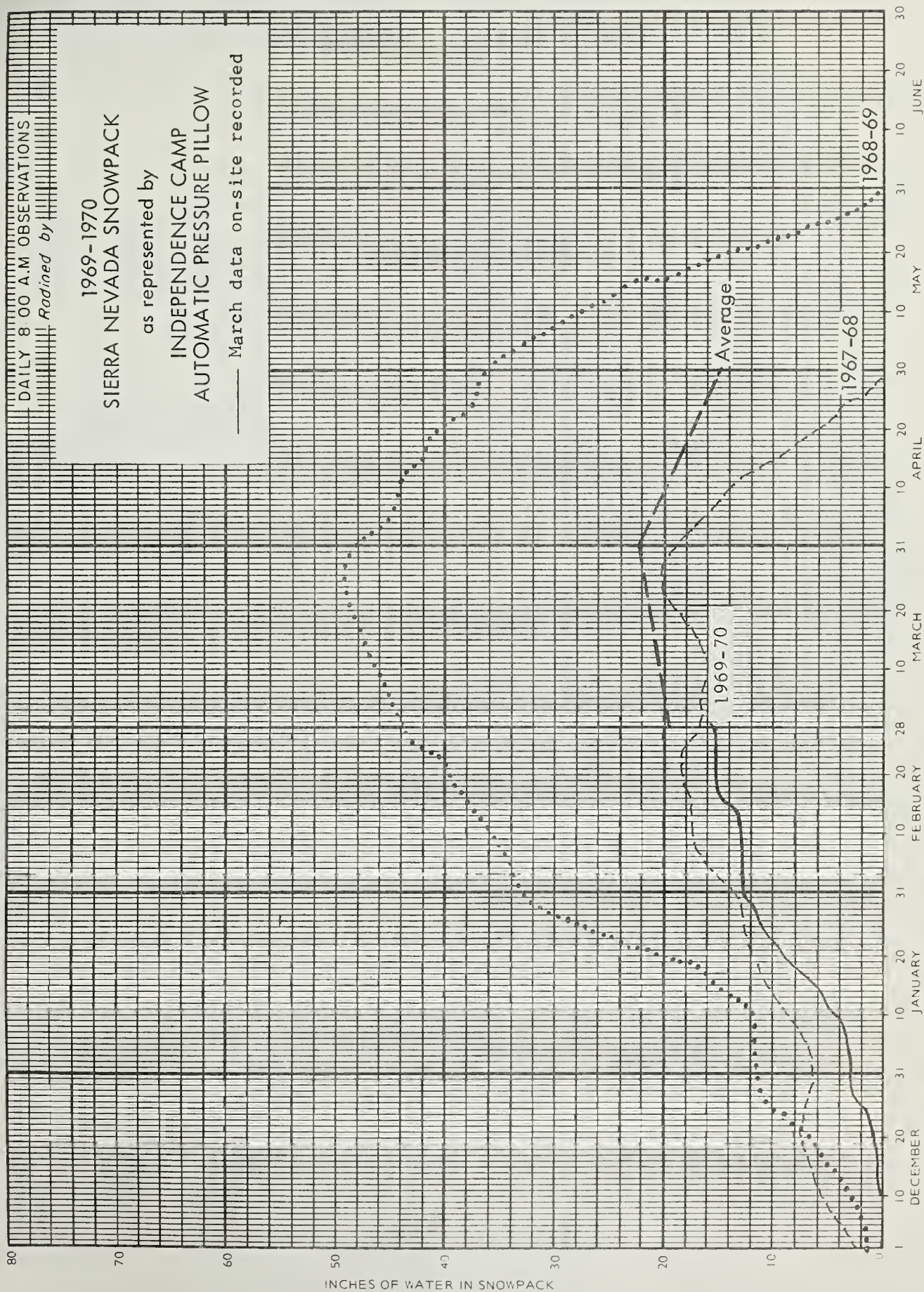
Redlined by

1969-1970
SIERRA NEVADA SNOWPACK

as represented by

INDEPENDENCE CAMP
AUTOMATIC PRESSURE PILLOW

March data on-site recorded

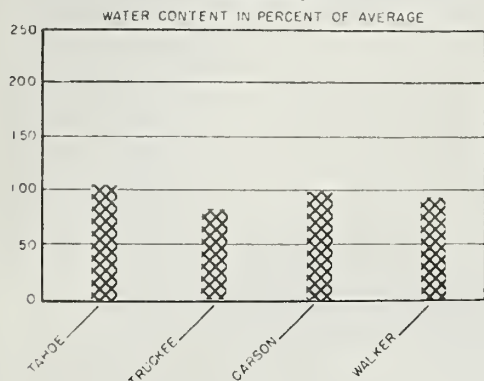


INCHES OF WATER IN SNOWPACK

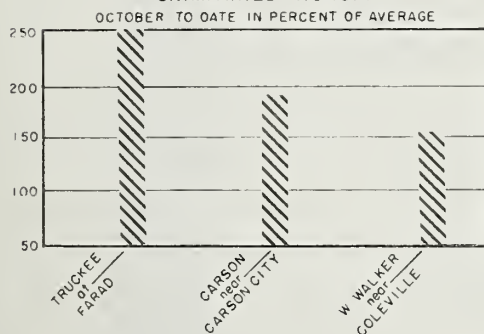
WATER SUPPLY OUTLOOK

FOR THE SOIL CONSERVATION DISTRICTS IN THE TRUCKEE, CARSON and WALKER WATERSHEDS

SNOWPACK



UNIMPAIRED RUNOFF



MARCH 1, 1970, SNOW SURVEYS TAKEN ALONG THE EAST SLOPE OF THE SIERRA NEVADA RANGE INDICATE A GENERALLY NEAR-AVERAGE SNOWPACK CONDITION. THE SNOWPACK IN THE LOWER ELEVATION AREAS, BELOW 7,000 FEET, IS BELOW NORMAL TO A MUCH-BELOW 25 PERCENT OF AVERAGE IN ISOLATED LOCATIONS. AT THE SAME TIME, HOWEVER, THE AREA ABOVE THIS LEVEL HAS GENERALLY GREATER THAN AVERAGE SNOW DEPTHS WITH SOME COURSES REGISTERING MORE SNOW THAN NORMALLY EXPERIENCED ON APRIL 1. SNOW COURSES IN THE LAKE TAHOE BASIN ARE CURRENTLY 102 PERCENT OF AVERAGE. THE TRUCKEE RIVER DRAINAGE, EXCLUSIVE OF THE LAKE TAHOE BASIN, HOWEVER, IS ONLY 77 PERCENT OF NORMAL. SNOW SURVEYS IN THE CARSON AND WALKER DRAINAGES INDICATE THAT THE PACK IS NEAR NORMAL AT 101 AND 97 PERCENT RESPECTIVELY.

RESERVOIR STORAGE THROUGHOUT THE TRUCKEE-CARSON DRAINAGES IS EXCELLENT AT THIS TIME. LAKE TAHOE HAS 646,200 ACRE-Feet WHICH IS 156 PERCENT OF AVERAGE AND 103 PERCENT OF LAST YEAR'S STORAGE AT THIS TIME. LAHONTAN RESERVOIR CONTAINS 249,000 ACRE-Feet, WHICH IS 130 PERCENT OF THE AVERAGE FOR THIS DATE. THIS EXCELLENT RESERVOIR STORAGE, PLUS THE NEAR-AVERAGE STREAMFLOWS EXPECTED THIS SUMMER, INSURES THE WATER USERS IN THE TRUCKEE AND CARSON DRAINAGES A GOOD WATER SUPPLY AGAIN THIS YEAR. COMBINED STORAGE OF TOPAZ AND BRIDGEPORT RESERVOIRS IS 98,000 ACRE-Feet. THIS IS 140 PERCENT OF AVERAGE AND ONLY 3,000 ACRE-Feet BELOW CAPACITY. THIS EXCELLENT STORAGE COUPLED WITH SLIGHTLY BETTER THAN AVERAGE STREAMFLOW PREDICTED ON THE WALKER DRAINAGES WILL GIVE WATER USERS SERVED BY EITHER OF THE SYSTEMS A GOOD IRRIGATION SUPPLY THIS COMING SUMMER.

Report prepared by
D. W. McANDREW and J. D. RDA
U.S.D.A.-SOIL CONSERVATION SERVICE
in cooperation with
NEVADA DEPT. OF CONSERVATION
AND NATURAL RESOURCES

STREAMFLOW FORECASTS (1000 Ac. Ft.)

SUMMARY of SNOW MEASUREMENTS

FORECAST POINT	FORECAST	% of Average	Average ⁺
Little Truckee above Boca, Calif.	72	88	81
Truckee at Farad, Calif.	255	99	258
Lake Tahoe Rise (assuming gates closed)	1.50	109	1.39
East Carson near Gardnerville, Nev.	179	102	175
West Carson at Woodfords, Calif.	55	108	51
Carson River near Carson City	170	102	166
Carson River near Fort Churchill	153	102	150
East Walker near Bridgeport, Calif.	65	108	60
West Walker below Little Walker near Coleville, Calif.	160	112	143

WATERSHED	This Years Snow as % of Average ⁺
Tahoe	103
Truckee	77
Carson	101
Walker	97

RESERVOIR STORAGE (Thousand Acre Feet)

RESERVOIR	Capacity	This Year	Average ⁺
Tahoe	732	646	412
Boca	41	27	6
Prosser	30	9	8
Lahontan	286	249	191
Topaz	59	58	39
Bridgeport	42	40	31

SUMMARY of SOIL MOISTURE

RIVER BASIN	This Years Moisture as % of Average ⁺
Truckee	64
Carson	75
Walker	51

FORECAST DATE of LOW FLOW VALUES

FORECAST POINT	Low Flow Value Second/Ft.	Forecast Date Stream Will Recede to Low Flow Value	Average Date of Low Flow Value
East Carson near Gardnerville	200	7/18	7/23

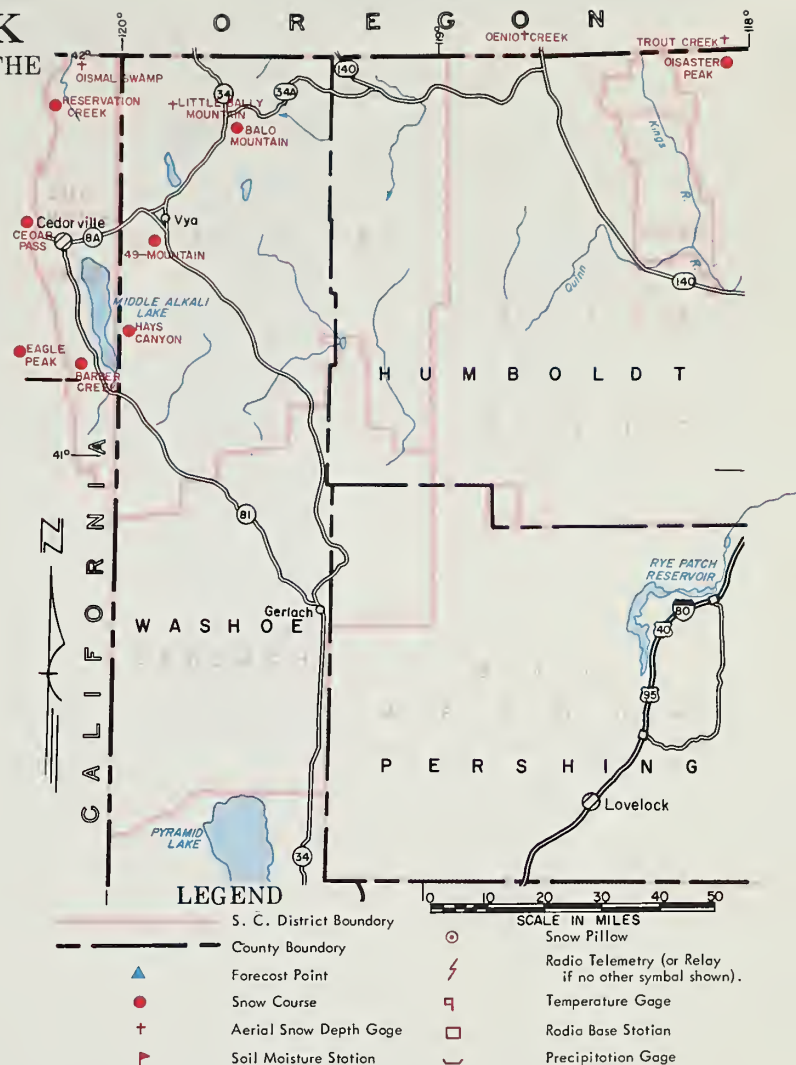
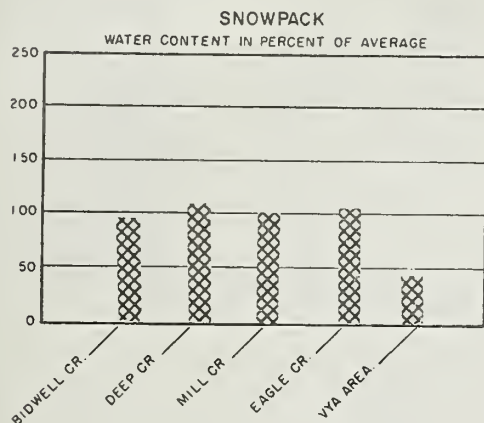
PEAK FLOWS (MAXIMUM MEAN DAILY) (Av. flow for 24 hrs. on day of greatest flow)

FORECAST POINT	PEAK FLOW (SECOND FEET)	
	Forecast Range	Average ⁺
Little Truckee River - Inflow to Stampede	810 - 900	902
East Fork Carson, near Gardnerville, Nev.	1700 - 1900	1724
Carson River, near Carson City	1800 - 2000	1825
Carson River at Fort Churchill	1550 - 1700	1678
West Walker below Little Walker, near Coleville, Calif.	1600 - 1750	1548

+ 1953-1967 period.

WATER SUPPLY OUTLOOK

FOR THE SOIL CONSERVATION DISTRICTS IN THE
SURPRISE VALLEY, CALIFORNIA,
and NORTHWEST NEVADA



THE MARCH 1, 1970, OUTLOOK IS FOR NEAR-AVERAGE WATER SUPPLIES FOR THE SURPRISE VALLEY AREA. SNOW COURSE MEASUREMENTS TAKEN IN THE WARNER MOUNTAINS INDICATE THAT THE SNOWPACK IS SLIGHTLY ABOVE AVERAGE FOR THIS DATE. CEDAR PASS SNOW COURSE CURRENTLY HAS 35 INCHES OF SNOW CONTAINING 13.0 INCHES OF WATER. THIS COMPARES WITH AN AVERAGE OF 30 INCHES OF SNOW WITH 12.2 INCHES OF WATER CONTENT.

SNOW COURSES LOCATED IN THE MOUNTAINS EAST OF CEDARVILLE AND NORTH OR SOUTH OF VYA HAVE MUCH LESS SNOW. THE SNOWPACK IN THIS AREA IS LESS THAN 50 PERCENT OF AVERAGE FOR THIS DATE.

STREAMFLOW WILL BE NEAR AVERAGE THIS SUMMER IN BIDWELL, MILL, DEEP, AND EAGLE CREEKS, WHICH SERVE WATER USERS LOCATED IN THE SURPRISE VALLEY SOIL CONSERVATION DISTRICT.

STREAMFLOW FORECASTS (1000 Ac. Ft.)

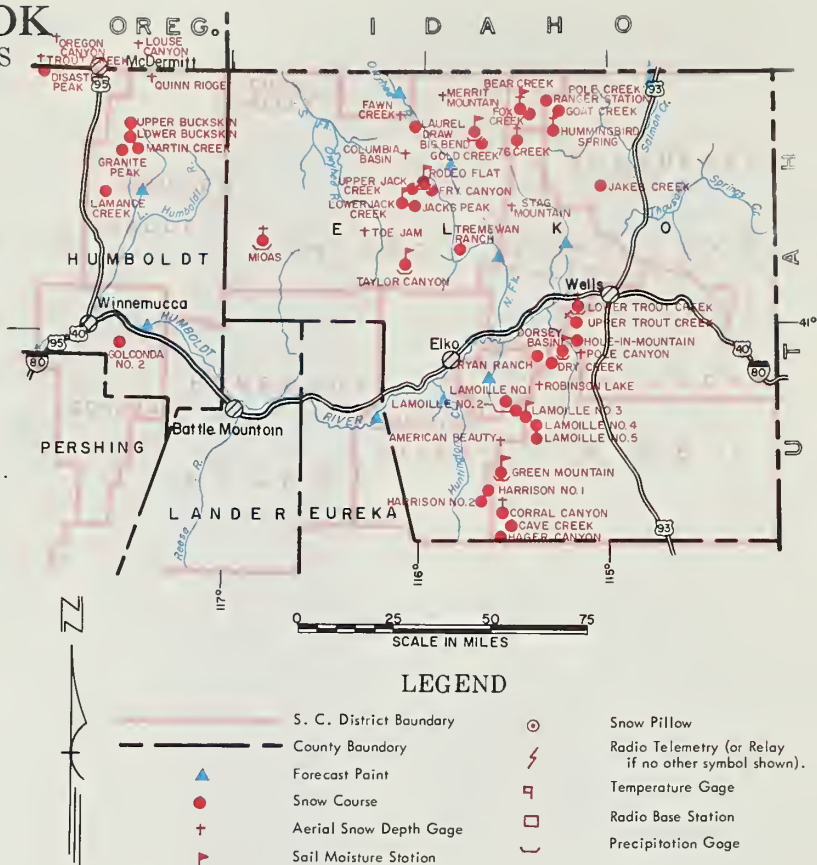
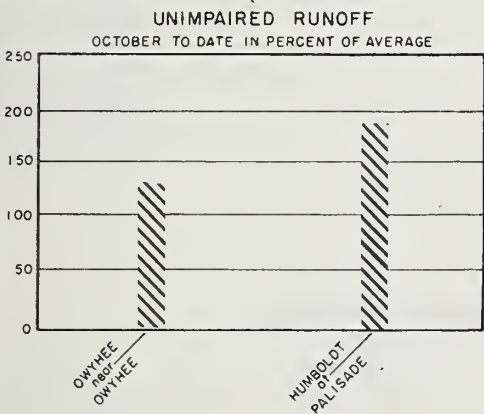
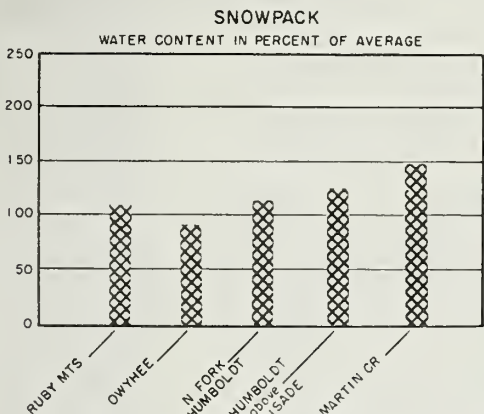
FORECAST POINT	FORE-CAST	% of Average	Average [†]
Bidwell Creek, near Fort Bidwell, Calif.	12.5	109	11.5
Deep Creek above all diversions	4.0	121	3.3
Eagle Creek at Eagleville, Calif.	4.8	112	4.3
Mill Creek above all diversions	5.5	117	4.7

SUMMARY of SNOW MEASUREMENTS

WATERSHED	This Years Snow as % of Average [†]
Bidwell Creek	97
Deep Creek	104
Eagle Creek	104
Mill Creek	106

WATER SUPPLY OUTLOOK

FOR THE SOIL CONSERVATION DISTRICTS
IN THE
HUMBOLDT and OWYHEE WATERSHEDS



THE MARCH 1, 1970, SNOWPACK IS GENERALLY ABOVE NORMAL THROUGHOUT THE HUMBOLDT BASIN. THE PACK HAS A WIDE VARIATION THIS YEAR, HOWEVER. SNOW IN THE LOWER ELEVATIONS, TYPICALLY, IS ONE-THIRD LESS THAN NORMAL TO VIRTUALLY NON-EXISTENT. IN THE HIGHER ELEVATIONS, HOWEVER, SNOW RANGES FROM SLIGHTLY ABOVE AVERAGE TO AS MUCH AS 180 PERCENT OF THE MARCH 1 NORMAL. THE SNOWPACK IN THE UPPER SNAKE RIVER DRAINAGE IN NORTHEAST NEVADA IS CURRENTLY 122 PERCENT OF NORMAL. THE UPPER OWYHEE RIVER DRAINAGE HAS 94 PERCENT OF AN AVERAGE SNOWPACK. SNOW COVER IN THE RUBY MOUNTAINS BELOW 7,700-FOOT ELEVATION IS GENERALLY BELOW AVERAGE, WHILE THE AREA ABOVE 7,700 FEET HAS MORE SNOW THAN NORMAL FOR THIS DATE.

DUE TO THE SNOWPACK DISTRIBUTION, THE STREAMFLOW THIS YEAR WILL GENERALLY BE LIGHT DURING THE EARLY SPRING, WHILE THE SUMMER FLOWS WILL BE NEAR OR ABOVE AVERAGE. WATER USERS ALONG THE HUMBOLDT AND ITS TRIBUTARIES WILL HAVE ANOTHER GOOD IRRIGATION SEASON THIS YEAR. RYE PATCH RESERVOIR HAS 173,000 ACRE-Feet, WHICH IS ONLY 6,000 FEET LESS THAN CAPACITY. THE HUMBOLDT AND ITS TRIBUTARIES WILL HAVE NEAR- TO ABOVE-AVERAGE STREAMFLOW THIS SUMMER. WATER USERS IN THE KINGS RIVER AND QUINN RIVER DRAINAGES, SIMILARLY, WILL HAVE NEAR-AVERAGE WATER SUPPLIES. THE EARLY WATER MAY BE LESS THAN AVERAGE, BUT SUPPLIES DURING THE LAST OF MAY THROUGH JUNE SHOULD BE NORMAL.

part prepared by
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P. O. BOX 4850, Reno, NEVADA
in cooperation with
NEVADA DEPT. OF CONSERVATION
AND NATURAL RESOURCES

STREAMFLOW FORECASTS (1000 Ac. Ft.)

FORECAST POINT	FORECAST	% of Average	Average ⁺
Lamoille Creek near Lamoille, Nev.	23	92	25
South Fork Humboldt near Elko, Nev.	65	112	58
Marys River above Hot Springs, Nev.	32	114	28
North Fork Humboldt at Devils Gate, Nev.	22	96	26
Humboldt River at Palisade, Nev.	200	130	154
Humboldt River at Comus, Nev.	140	127	110
Martin Creek near Paradise, Nev.	17	121	14
Owyhee River near Owyhee, Nev.	69	115	60
Owyhee River near Gold Creek, Nev.	18	112	16
Salmon Falls Creek near San Jacinto, Nev. March-July streamflow	75	113	67

SUMMARY of SNOW MEASUREMENTS

WATERSHED	This Years Snow as % of Average ⁺
Lamoille	106
South Fork Humboldt	108
North Fork Humboldt	97
Owyhee	94
Lower Humboldt	121
Martin Creek	150
Kings and Quinn Rivers	98

SUMMARY of SOIL MOISTURE

RIVER BASIN	This Years Moisture as % of Average ⁺
Humboldt, North Fork	75
Humboldt, South Fork	40

WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Franklin River	Fair	Average
Kings River	Fair	Average
Little Humboldt River	Average	Average
Quinn River	Fair	Average

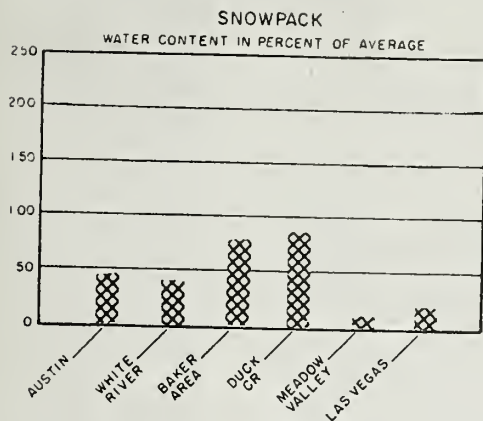
RESERVOIR STORAGE (Thousand Acre Feet)

RESERVOIR	Capacity	This Year	Average ⁺
Rye Patch	179	173	74
Wild Horse	72	12	15

⁺ 1953-1967 period.

WATER SUPPLY OUTLOOK

FOR THE SOIL CONSERVATION DISTRICTS IN
EAST CENTRAL and SOUTHERN NEVADA



AS OF MARCH 1, 1970, THE SNOWPACK THROUGHOUT CENTRAL AND SOUTHERN NEVADA RANGES FROM 80 PERCENT OF AVERAGE, NEAR ELY, TO 25 PERCENT AND LESS IN THE MEADOW VALLEY AND MT. CHARLESTON AREAS. SNOW COURSE MEASUREMENTS ON MT. CHARLESTON, NEAR LAS VEGAS, INDICATE THAT IN ONLY THREE YEARS DURING THE LAST 30 HAS THERE BEEN LESS SNOW ON THIS MOUNTAIN BY THIS DATE. SNOW SURVEYS IN THE AUSTIN AREA INDICATE THAT THIS YEAR'S PACK IS LESS THAN 50 PERCENT OF AVERAGE. SNOW COURSES IN THE MEADOW VALLEY WASH DRAINAGE ARE BARE OF SNOW AT THIS TIME. THIS HAS HAPPENED EIGHT YEARS OUT OF THE LAST 20 IN THIS AREA, HOWEVER.

WATER SUPPLIES DERIVED THROUGH DIRECT STREAMFLOW THROUGHOUT CENTRAL AND SOUTHERN NEVADA WILL BE VERY DEFICIENT TO NON-EXISTENT THIS YEAR, EXCEPT FOR THE ELY AREA. GROUND WATER SUPPLIES IN THE VALLEYS SIMILAR TO PAHRUMP AND FISH LAKE VALLEY IN SOUTHERN NEVADA SHOULD BENEFIT THIS SEASON BY THE RECORD SNOWPACK EXPERIENCED DURING THE 1968-69 WINTER SEASON. STREAMFLOW IN WHITE PINE COUNTY IS EXPECTED TO BE ABOUT THREE-FOURTHS OF AVERAGE. THE SNOWPACK IN THIS AREA RANGES FROM 50 PERCENT OF NORMAL, NEAR STEPTOE CREEK, TO 104 PERCENT IN THE BERRY CREEK DRAINAGE. WATER USERS ON THE BAKER, SILVER AND DUCK CREEK DRAINAGES WILL HAVE A FAIR-TO-AVERAGE SUPPLY THIS SUMMER.

STREAMFLOW FORECASTS (1000 Ac. Ft.)

FORECAST POINT	FORE-CAST	% of Average	Average ⁺
Virgin River at Virgin, Utah	20	53	38

SUMMARY of SNOW MEASUREMENTS

WATERSHED	This Years Snow as % of Average ⁺
Duck Creek	97
Fish Lake Valley	40
Meadow Valley Wash	10
Mt. Charleston Area	27
Reese River	42

RESERVOIR STORAGE (Thousand Acre Feet)

RESERVOIR	Capacity	This Year	Average ⁺
Mohave	1,810	1,616	1,697
Mead	27,217	16,853	16,416

WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Baker Creek	Fair	Average
Duck Creek	Fair	Fair
Silver Creek	Fair	Fair
Meadow Valley Wash	Poor	Poor
White River	Poor	Poor
Reese River	Poor	Poor

Agencies Cooperating in Collecting Data Contained in this Bulletin

FEDERAL

- Agricultural Research Service
- Army
- Bureau of Reclamation
- Fish and Wildlife Service
- Forest Service
- Geological Survey
- Navy
- Soil Conservation Service
- U.S. District Court - Federal Water Master
- Weather Bureau

STATE

- California Cooperative Snow Surveys
- California Department of Parks and Recreation
- California Department of Water Resources
- Colorado River Commission of Nevada
- Idaho Cooperative Snow Surveys
- Nevada Association of Soil Conservation Districts
- Nevada Cooperative Snow Surveys
- Nevada Department of Conservation & Natural Resources
 - Division of Water Resources
 - Nevada State Forester-Firewarden
- Oregon Cooperative Snow Surveys
- University of Nevada
- Utah Cooperative Snow Surveys
- White Mountain Research Station, Univ. of California

PRIVATE

- Amalgamated Sugar Company
- Kennecott Copper Corporation
- Nevada Irrigation District
- Owyhee Project North Board of Control
- Owyhee Project South Board of Control
- Pacific Gas & Electric Company
- Pershing County Water Conservation District
- Sierra Pacific Power Company
- Squaw Valley Development Company
- Truckee-Carson Irrigation District
- Walker River Irrigation District
- Washoe County Water Conservation District

Other organizations and individuals furnish valuable information for the snow survey reports. Their Cooperation is gratefully acknowledged.

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SOIL CONSERVATION SERVICE
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FEDERAL - STATE - PRIVATE
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Furnishes the basic data
necessary for forecasting
water supply for irrigation,
domestic and municipal water
supply, hydro-electric power
generation, navigation,
mining and industry

*"The Conservation of Water begins
with the Snow Survey"*